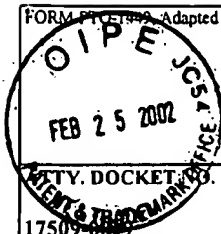


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ATTY. DOCKET 17509-0000	SERIAL NO. 09/975,672	FILING DATE October 10, 2001
APPLICANT(S) Sheppard, Jr., et al.		GROUP 3762

**U.S. PATENT DOCUMENTS**

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RM	3,692,027	09/19/72	Ellinwood, Jr.			
	4,360,019	11/23/82	Portner et al.			
	4,507,115	03/26/85	Kambara et al.			
	4,585,652	04/29/86	Miller et al.			
	4,731,049	03/15/88	Parsi			
	4,793,825	12/27/88	Benjamin et al.			
	5,042,975	08/27/91	Chien et al.			
	5,167,625	12/01/92	Jacobsen et al.			
	5,170,801	12/15/92	Casper et al.			
RM	5,200,051	04/06/93	Cozzette, et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO	
RM	93/03790	03/04/93	WO	Rutgers, The State University of NJ		
	197 16 683	06/04/98	DE	Fraunhofer Ges Forschung	X	
	01/28629	04/26/01	WO	Abiomed, Inc.		
RM	01/37926	05/31/01	WO	Abiomed, Inc.		

**OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)**

RM	Barillaro, et al., Optical Materials, 17(1-2):91-94 (2001).
	Low, et al., "Microactuators Towards Microvalves for Responsive Controlled Drug Delivery," <i>Sensors &amp; Actuators B</i> 67: 149-60 (2000).
	Madou & Florkey, "From Batch to Continuous Manufacturing of Microbiomedical Devices," <i>Chem. Rev.</i> , 100: 2679-92 (2000).
RM	Madou, <u>Fundamentals of Microfabrication</u> , pp. 468-512 (CRC Press 1997).

EXAMINER RM	DATE CONSIDERED 10/26/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RM	5,252,294	10/12/93	Kroy et al.			
	5,279,607	01/18/94	Schentag et al.			
	5,318,557	06/07/94	Gross			
	5,324,316	06/28/94	Schulman et al.			
	5,336,213	08/09/94	D'Angelo et al.			
	5,366,454	11/22/94	Currie et al.			
	5,368,704	11/29/94	Madou et al.			
	5,368,588	11/29/94	Bettinger			
	5,429,822	07/04/95	Gresser et al.			
	5,443,508	08/22/95	Giampapa			
	5,474,527	12/12/95	Bettinger			
	5,585,069	12/17/96	Zanzucchi et al.			
	5,713,954	02/03/98	Rosenberg et al.			
✓	5,797,898	08/25/98	Santini, Jr. et al.			
RM	5,798,042	08/25/98	Chu et al.			

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Madou & He, "Exploitation of a Novel Artificial Muscle for Controlled Drug Delivery," pp. 495-497 (1999).
	Surbled, et al., "Shape Memory Alloys for Micromembranes Actuation," SPIE. 3825: 63-70 (1999).
✓	Surbled, et al., "Array of Shape Memory Alloy One-Shot Micro-Valves for Drug Delivery," MME '99, Gif sur Yvette, France (Sept. 27-28, 1999).
RM	Tierney, et al., "New Electorelease Systems Based on Microporous Membranes," J. Electrochem. Soc., 137:3789-3793 (1990).

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## U.S. PATENT DOCUMENTS

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RM	5,807,397	09/15/98	Barreras			
	5,841,122	11/24/98	Kirchhoff			
	5,842,787	12/01/98	Kopf-Sill et al.			
	5,843,767	12/01/98	Beattie			
	5,962,081	10/05/99	Öhman et al.			
	5,976,336	11/02/99	Dubrow et al.			
	5,989,445	11/23/99	Wise et al.			
	6,047,214	04/04/00	Mueller et al.			
	6,096,656	08/01/00	Matzke et al.			
	6,123,861	09/26/00	Santini, Jr. et al.			
	6,140,740	10/31/00	Porat, et al.			
	6,171,850	01/09/01	Nagle et al.			
	6,243,608	06/05/01	Pauly et al.			
↓	09/638,109		Santini, Jr., et al.			08/11/00
RM	09/715,493		Santini, Jr., et al.			11/17/00

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Tierney, et al., "Electroreleasing Composite Membranes for Delivery of Insulin and Other Biomacromolecules," <i>J. Electrochem. Soc.</i> , 137:2005-06 (1990).
↓	Liu C., et al. "Applications of microfabrication and micromachining techniques to biotechnology," <i>Trends in Biotechnology</i> , Vol. 15, No. 6, pp 213-16.
↓	Palmore & Whitesides, "Microbial and Enzymatic Biofuel Cells," <i>Enzymatic Conversion of Biomass for Fuel Production</i> , ACS Symposium Series 566:271-90 (1994).
RM	Kano & Ikeda, "Fundamentals and practices of mediated bioelectrocatalysis," <i>Analytical Sci.</i> , 16(10):1013-21 (2000)

EXAMINER *[Signature]* DATE CONSIDERED 10/26/04

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**Sheppard, Jr., et al**

3762

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**OTHER REFERENCES** (Including Author, Title, Date, Pertinent Pages, Etc.)

Wilkinson, *Autonomous Robots*, 9(2): 99-111 (2000).

Wolf & Tauber, "Silicon Processing for the VLSI Era," (Lattice Press, 1986).

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## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE If Appropriate
RM	6,334,859	01/01/02	Richter			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION Yes No

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)


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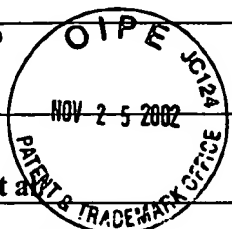
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## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE If Appropriate
RM	6,001,090	12/14/1999	Lenhart			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
					Yes	No
RM	99/42039	08/26/1999	WO	Vascusense, Inc.		

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Reynaerts, et al. "An Implantable drug-delivery system based on shape memory alloy micro-actuation", <u>Sensors and Actuators A</u> , 61(1-3):455-162 (1997).

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